Semester II

HW1 – Grade 11(Core)

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** |  | **Subject** | **Mathematics** |
| **Section** |  | **Due Date** | **19/1/2012** |

**Dividing Polynomials**

**Simplify. (use long division for the Q7 – Q 26)**

1. http://glencoe.com/sites/common_assets/mathematics/alg2_2010/worksheets/html/gln_ma_a2crmch06/gln_ma_a2crmch06_14/images/pg14_001.jpg
2. http://glencoe.com/sites/common_assets/mathematics/alg2_2010/worksheets/html/gln_ma_a2crmch06/gln_ma_a2crmch06_14/images/pg14_002.jpg
3. (-30*x*3*y* + 12*x*2*y*2 − 18*x*2*y*) ÷ (-6*x*2*y*)
4. (-6*w*3*z*4 − 3*w*2*z*5 + 4*w* + 5*z*) ÷ (2*w*2*z*)
5. (4*a*3 − 8*a*2 + *a*2)(4*a*)-1
6. (28*d*3*k*2 + *d*2*k*2 − 4*dk*2)(4*dk*2)-1
7. http://glencoe.com/sites/common_assets/mathematics/alg2_2010/worksheets/html/gln_ma_a2crmch06/gln_ma_a2crmch06_14/images/pg14_003.jpg
8. http://glencoe.com/sites/common_assets/mathematics/alg2_2010/worksheets/html/gln_ma_a2crmch06/gln_ma_a2crmch06_14/images/pg14_004.jpg
9. (*a*3 − 64) ÷ (*a* − 4)
10. (*b*3 + 27) ÷ (*b* + 3)
11. http://glencoe.com/sites/common_assets/mathematics/alg2_2010/worksheets/html/gln_ma_a2crmch06/gln_ma_a2crmch06_14/images/pg14_005.jpg
12. http://glencoe.com/sites/common_assets/mathematics/alg2_2010/worksheets/html/gln_ma_a2crmch06/gln_ma_a2crmch06_14/images/pg14_006.jpg
13. (3*w*3 + 7*w*2 − 4*w* + 3) ÷ (*w* + 3)
14. (6*y*4 + 15*y*3 − 28*y* − 6) ÷ (*y* + 2)
15. (*x*4 − 3*x*3 − 11*x*2 + 3*x* + 10) ÷ (*x* − 5)
16. (3*m*5 + *m* − 1) ÷ (*m* + 1)
17. (*x*4 − 3*x*3 + 5*x* − 6)(*x* + 2)-1
18. (6*y*2 − 5*y* − 15)(2*y* + 3)-1
19. http://glencoe.com/sites/common_assets/mathematics/alg2_2010/worksheets/html/gln_ma_a2crmch06/gln_ma_a2crmch06_14/images/pg14_007.jpg
20. http://glencoe.com/sites/common_assets/mathematics/alg2_2010/worksheets/html/gln_ma_a2crmch06/gln_ma_a2crmch06_14/images/pg14_008.jpg
21. (2*r*3 + 5*r*2 − 2*r* − 15) ÷ (2*r* − 3)
22. (6*t*3 + 5*t*2 − 2*t* + 1) ÷ (3*t* + 1)
23. http://glencoe.com/sites/common_assets/mathematics/alg2_2010/worksheets/html/gln_ma_a2crmch06/gln_ma_a2crmch06_14/images/pg14_009.jpg
24. http://glencoe.com/sites/common_assets/mathematics/alg2_2010/worksheets/html/gln_ma_a2crmch06/gln_ma_a2crmch06_14/images/pg14_010.jpg
25. **GEOMETRY** The area of a rectangle is 2*x*2 − 11*x* + 15 square feet. The length of the rectangle is 2*x* − 5 feet. What is the width of the rectangle?
26. **GEOMETRY** The area of a triangle is 15*x*4 + 3*x*3 + 4*x*2 − *x* − 3 square meters. The length of the base of the triangle is 6*x*2 − 2 meters. What is the height of the triangle?